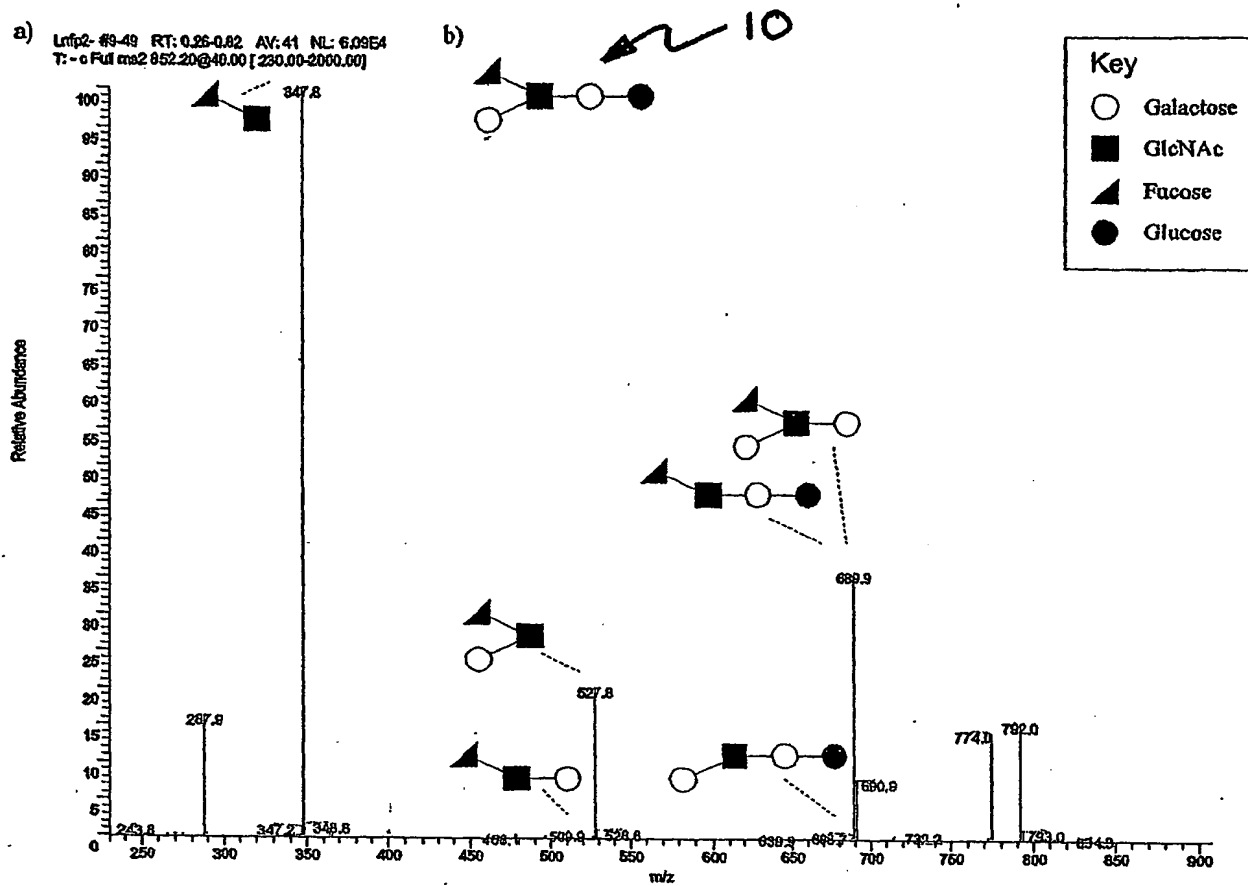


Fig 4



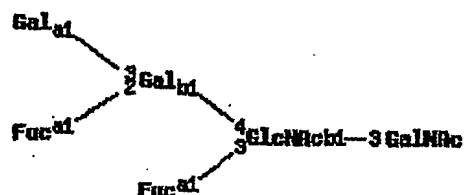


Figure 6 Oligosaccharide structure

cybm11b_o_01 #352-376 RT: 14.12-14.60 AV:4 NL: 2.20E3
T: -o-d Full ms2 1041.28@40.00 [275.00-1055.00]

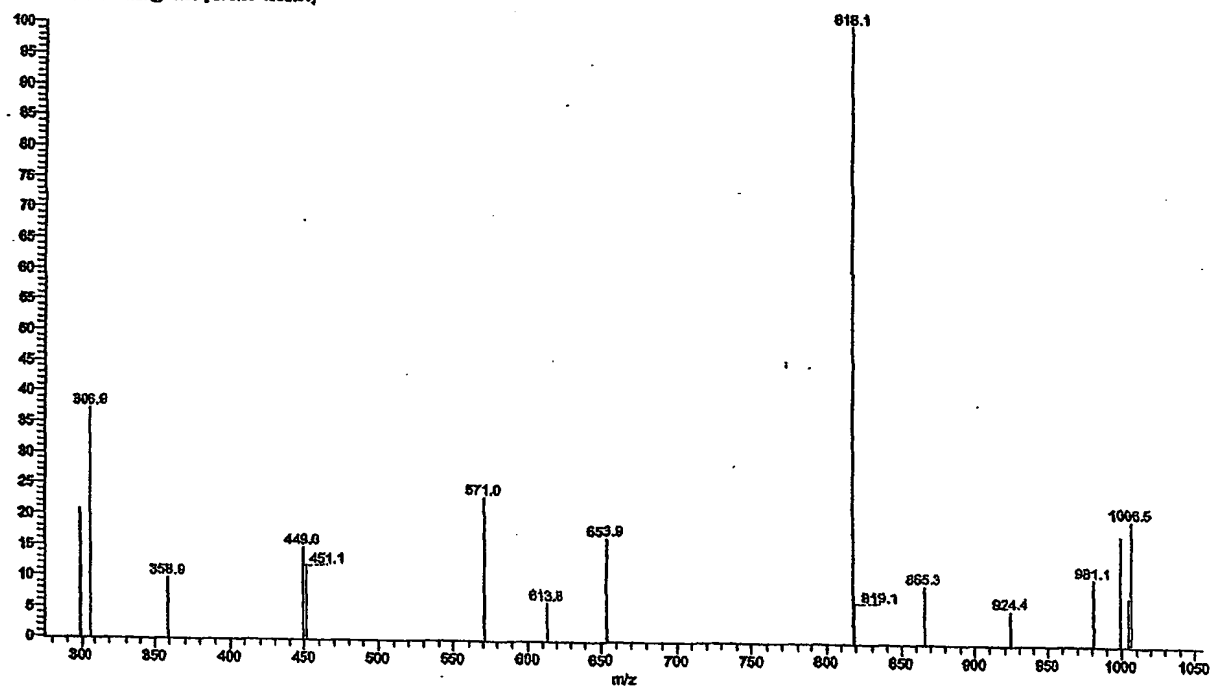


Figure 7 Spectra for oligosaccharide shown in Figure 6

Score	Missed intensities	Grouping score	Structure
.8	123.6	5 out of 5 using 4 double fragments	
.8	156.32	5 out of 5 using 4 double fragments	
.7	141.82	4 out of 5 using 2 double fragments	
.7	147.65	4 out of 5 using 2 double fragments	
.7	162.15	4 out of 5 using 2 double fragments	

Fig 8a

Score	Missed Intensities	Grouping score	Structure
.65	266.98	4 out of 5 using 3 double fragments	
.45	286.4	3 out of 5 using 3 double fragments	
.4	278.51	2 out of 5	
.35	232.08	2 out of 5 with 1 double fragment counted	
.35	232.08	2 out of 5 using 1 double fragment	

Fig 8b

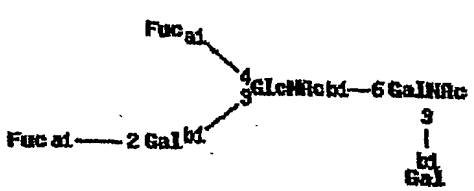
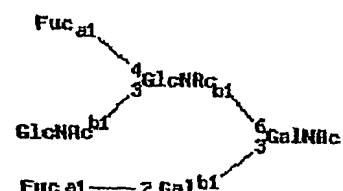
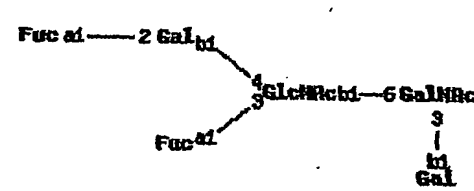

Score	Missed intensities	Grouping score	Structure
.35	235.24	2 out of 5 using 1 double fragment	
.35	235.57	2 out of 5 using 1 double fragment	
.35	241.07	2 out of 5 using 1 double fragment	
.35	255.57	2 out of 5 using 1 double fragment	

Fig. 8c

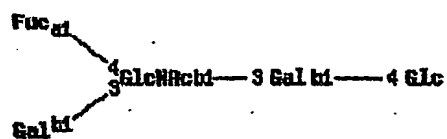


Figure 9

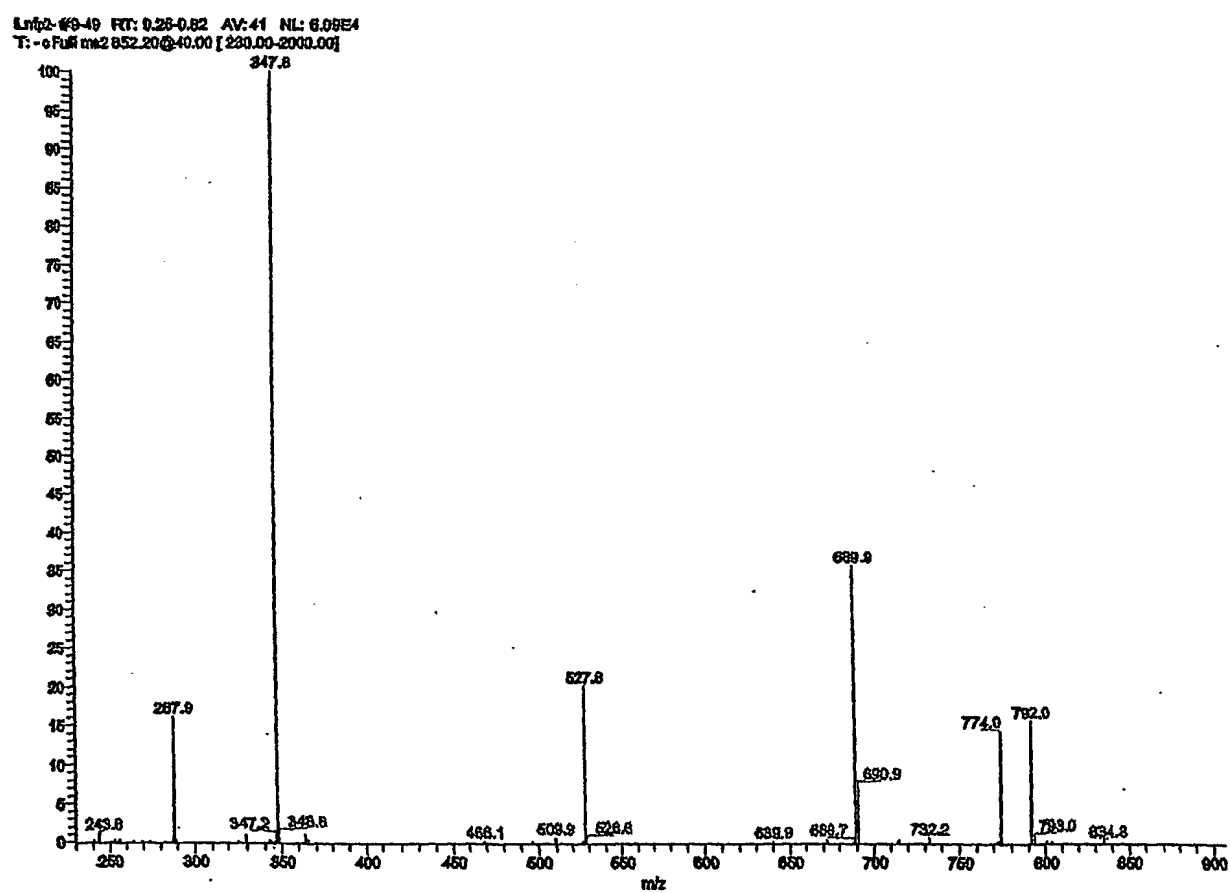


Figure : 10

Score	Missed Intensities	Grouping score	Structure
1	29.91	4 out of 4	
1	131.43	4 out of 4	Fuc1 — 2 Gal1 — 4 GlcNAc1 — 3 Gal1 — 4 Glc
1	131.43	4 out of 4	Fuc1 — 2 Gal1 — 3 GlcNAc1 — 3 Gal1 — 4 Glc
1	131.43	4 out of 4	Fuc1 — 2 Gal1 — 3 GlcNAc1 — 3 Gal1 — 4 Glc
.9375	124.3	4 out of 4 using 1 double fragment	
.75	124.87	3 out of 4	
.375	190.01	2 out of 4 using 2 double fragments	GalNAc1 — 4 GlcNAc1 — 3 Gal1 — 3 Gal1 — 4 Xyl

Fig 11.

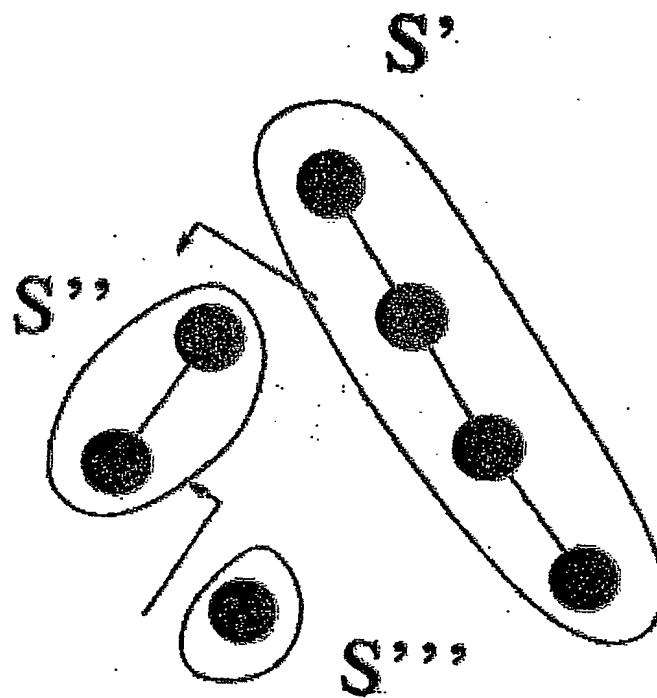


FIG. 13

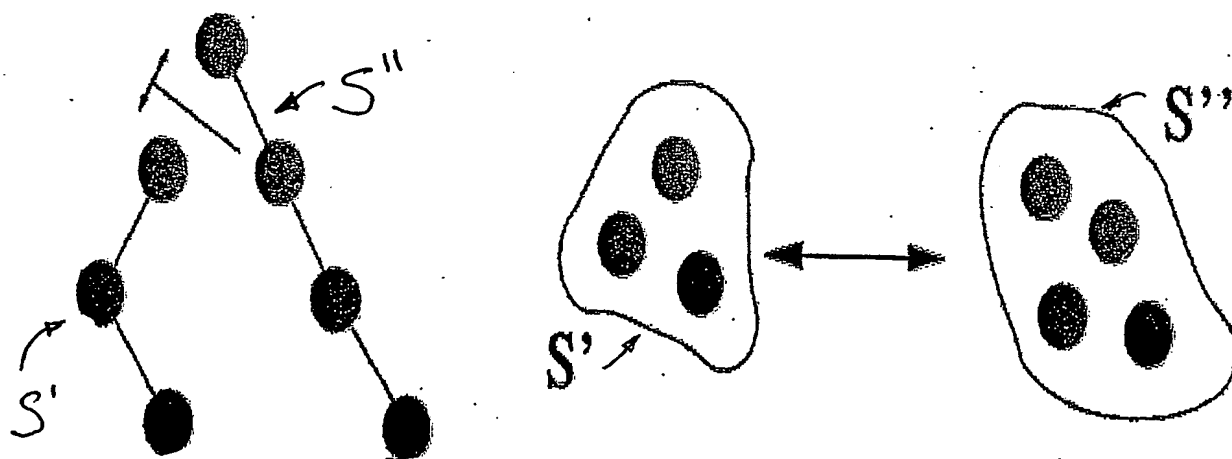
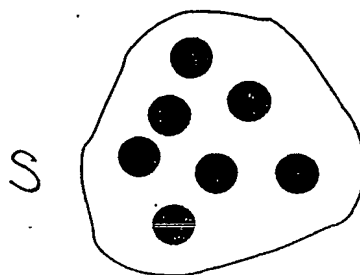


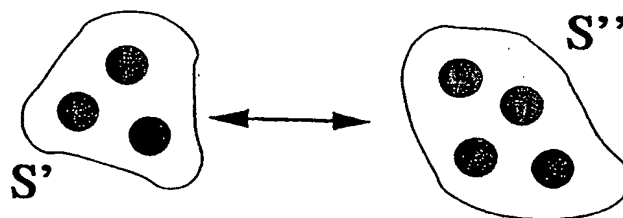
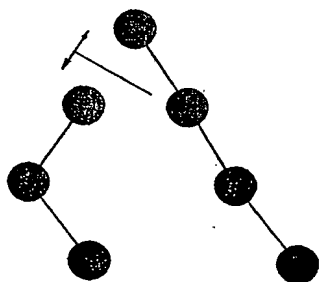
FIG. 12

Fig. 14

a) No evidence

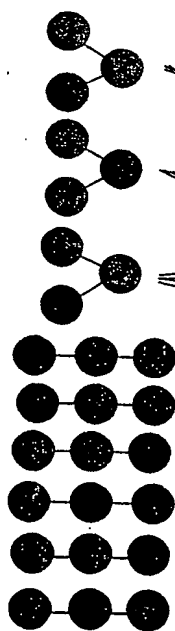


b) Single fragmentation

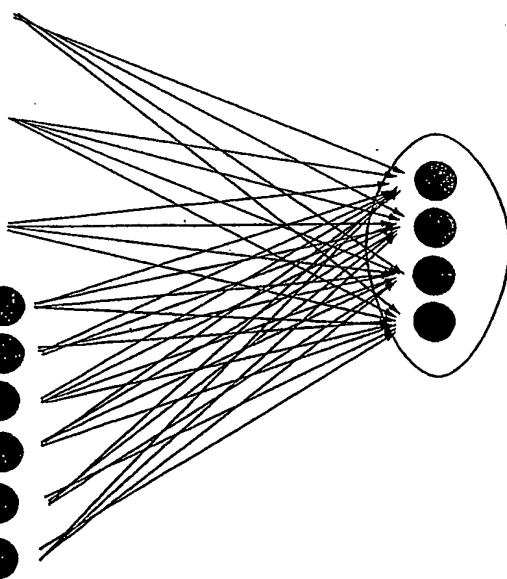


c)

S'



S''



$$x64 = 2304$$

9

x4

36

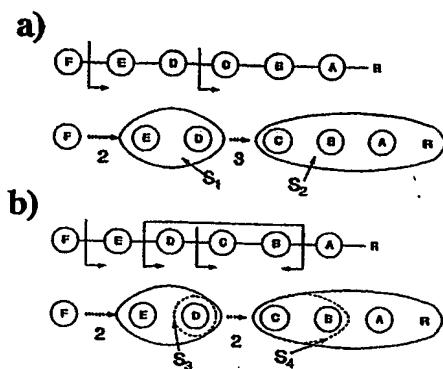


FIG. 16